380
20

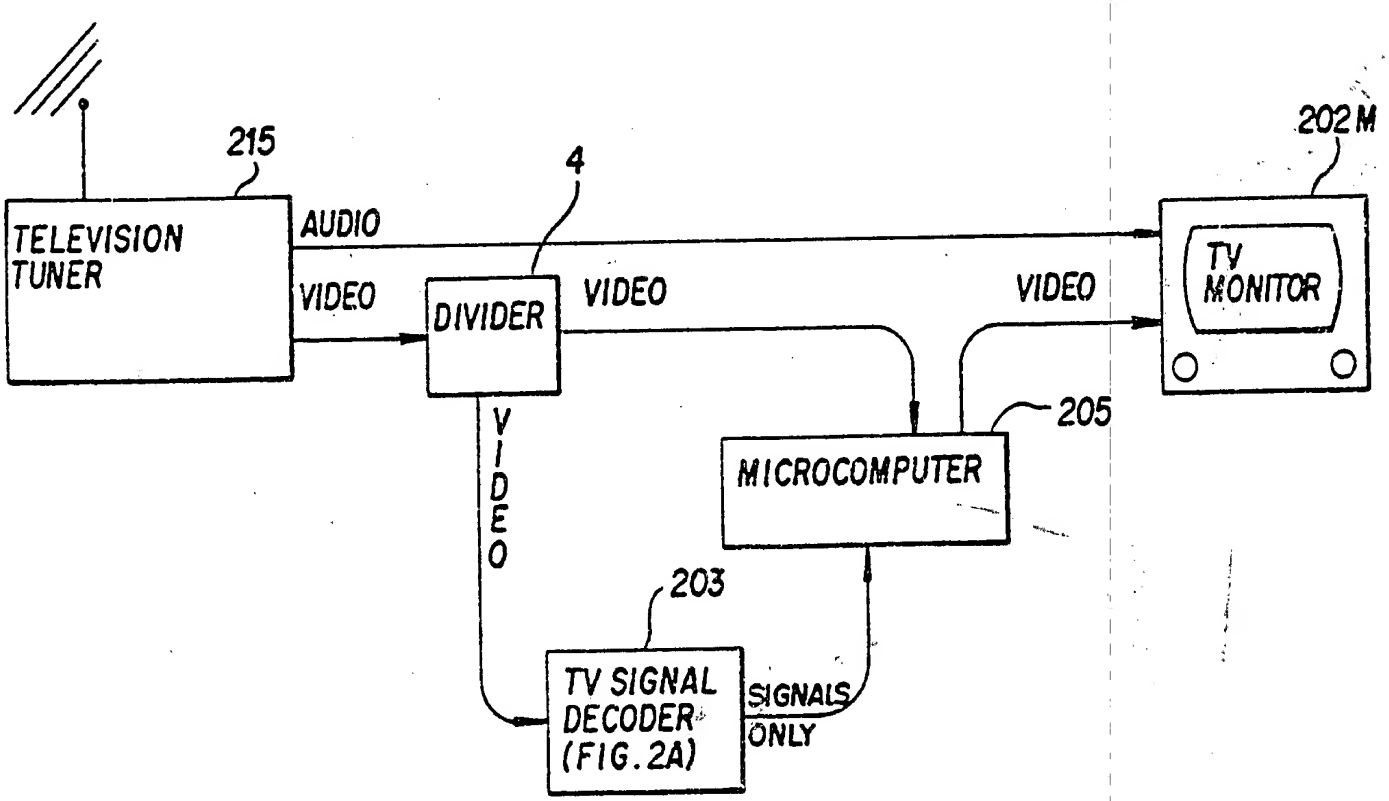


FIG. 1

5353277
08/059,501

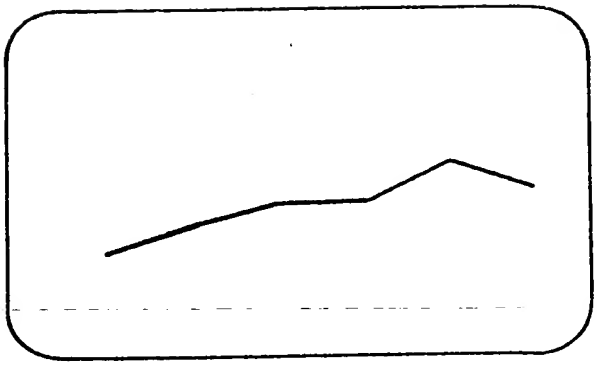


FIG. 1A

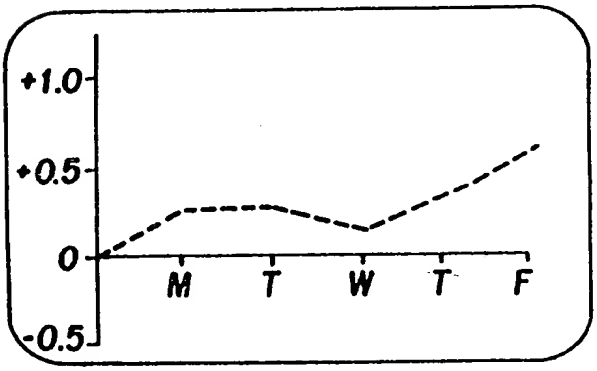


FIG. 1B

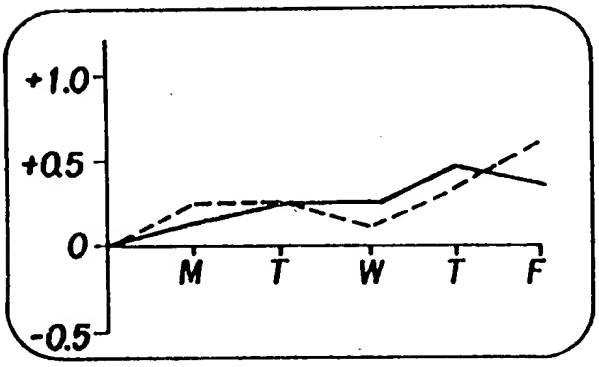


FIG. 1C

CRAFTSMAN | CLASS | SUBCLASS

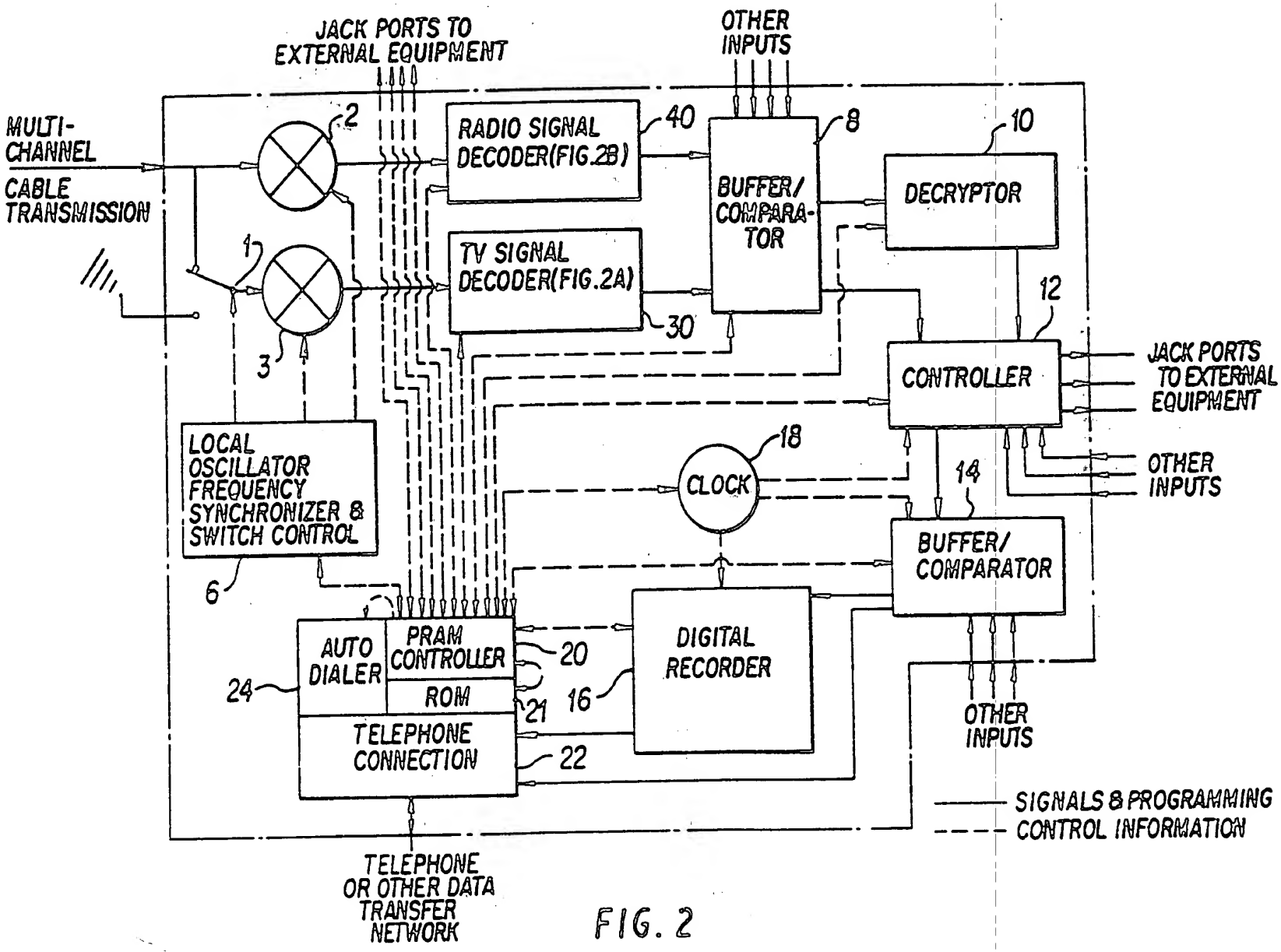


FIG. 2

DRAFTSMAN SUBCLASS

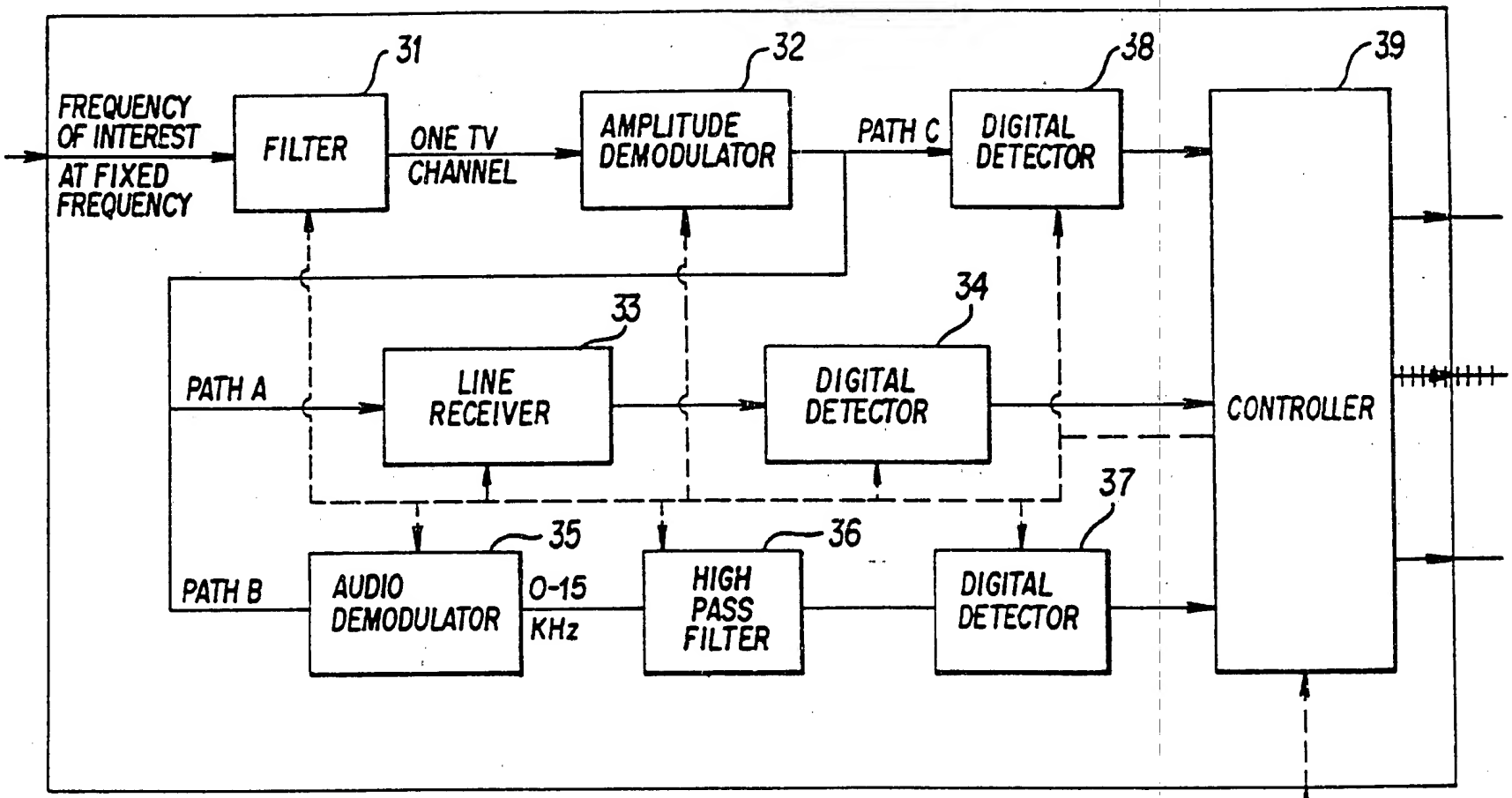


FIG. 2A

CRAFTSMAN SUBCLASS

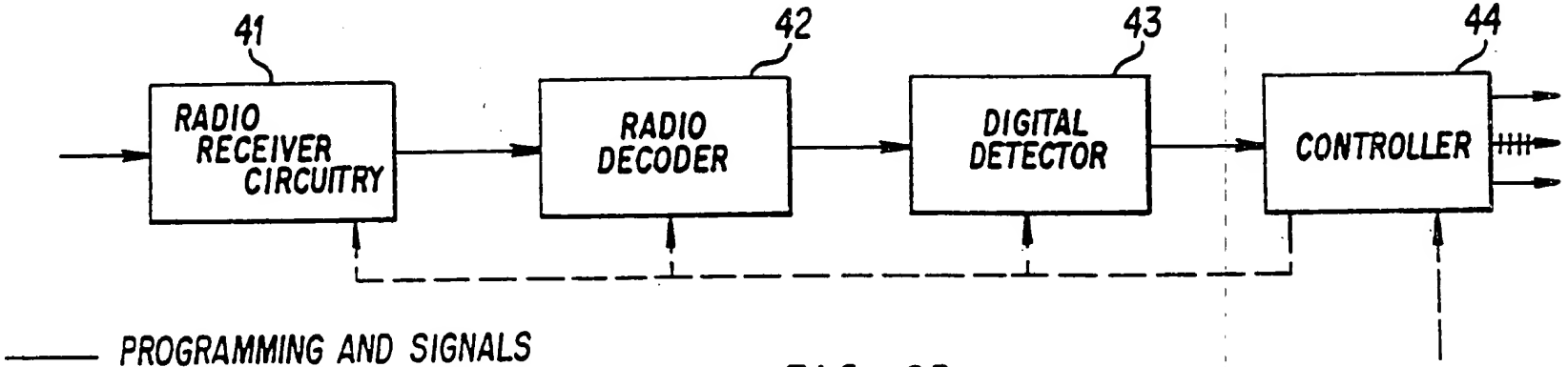


FIG. 2B

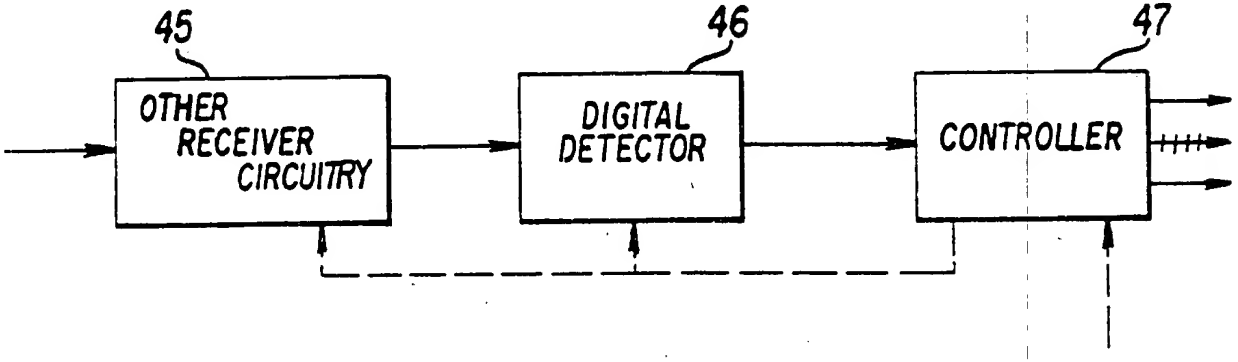


FIG. 2C

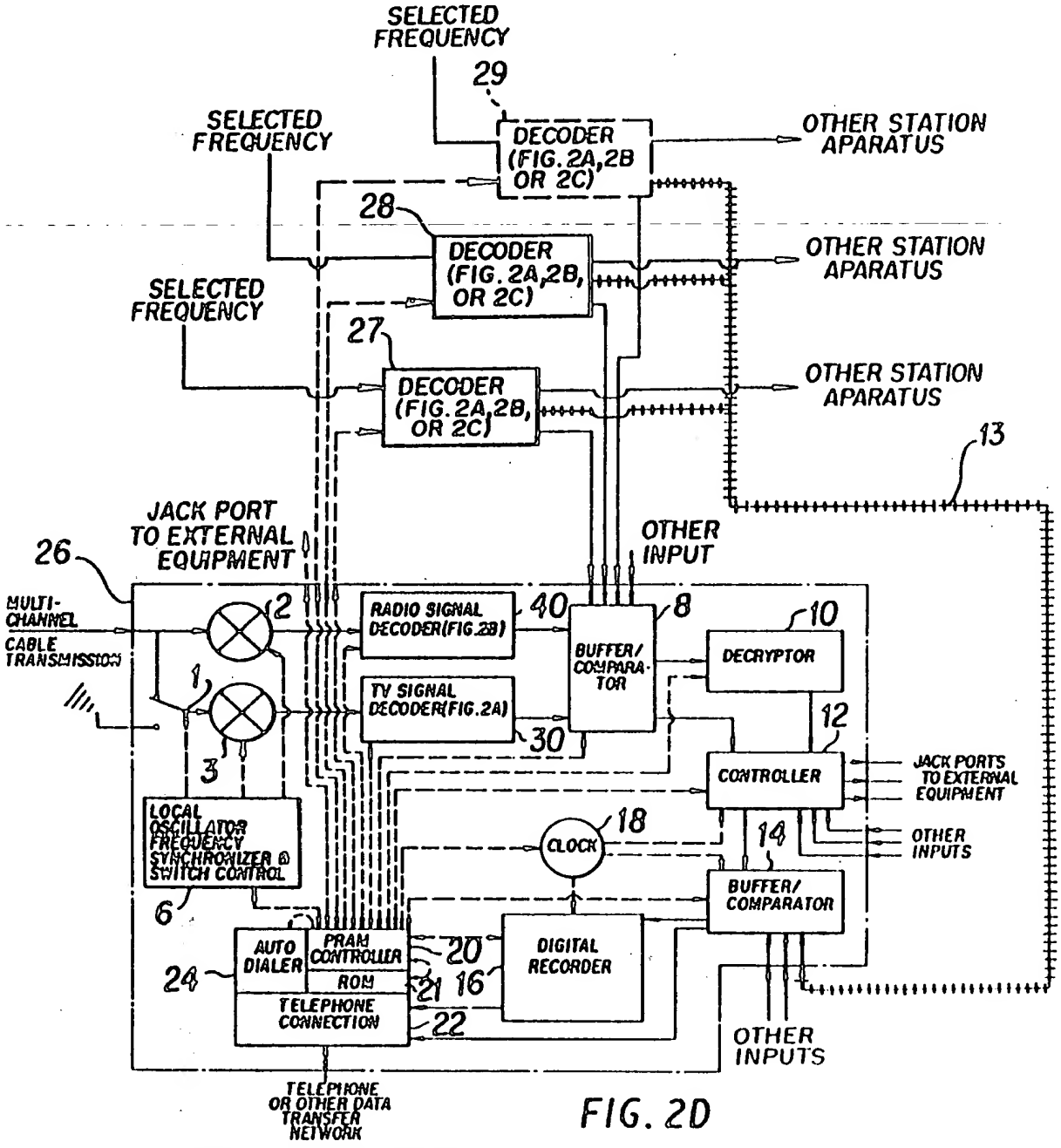

SELECTED FREQUENCY
29
DECODER (FIG. 2A, 2B OR 2C)
OTHER STATION APARATUS
SELECTED FREQUENCY
28
DECODER (FIG. 2A, 2B, OR 2C)
OTHER STATION APARATUS
SELECTED FREQUENCY
27
DECODER (FIG. 2A, 2B, OR 2C)
OTHER STATION APARATUS
13
JACK PORT TO EXTERNAL EQUIPMENT
OTHER INPUT
26
MULTI-CHANNEL CABLE TRANSMISSION
2
1
3
RADIO SIGNAL DECODER(FIG.2B)
40
TV SIGNAL DECODER(FIG.2A)
30
BUFFER/ COMPARA-TOR
8
DECRYPTOR
10
12
CONTROLLER
JACK PORTS TO EXTERNAL EQUIPMENT
OTHER INPUTS
LOCAL OSCILLATOR FREQUENCY SYNCHRONIZER & SWITCH CONTROL
6
CLOCK
18
14
BUFFER/ COMPARATOR
AUTO DIALER
PRAM CONTROLLER
ROM
TELEPHONE CONNECTION
24
20
21
16
22
DIGITAL RECORDER
OTHER INPUTS
TELEPHONE OR OTHER DATA TRANSFER NETWORK
SIGNALS & PROGRAMMING
CONTROL INFORMATION
MONITOR INFORMATION

FIG. 2D

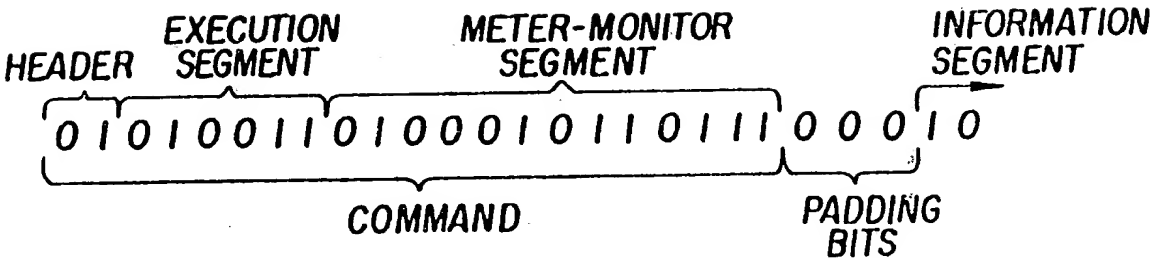


FIG. 2E

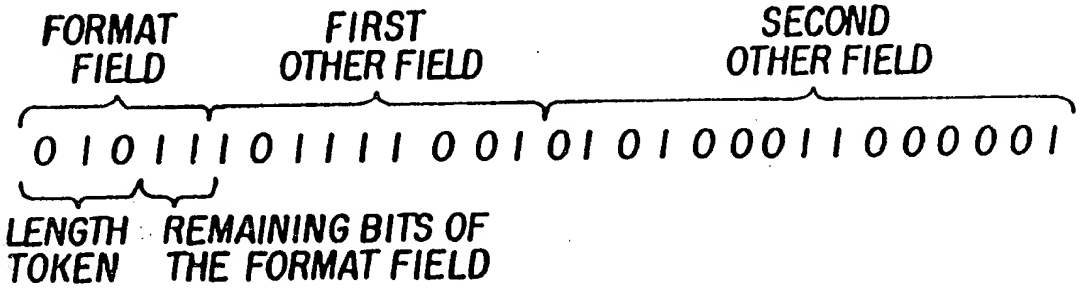


FIG. 2F

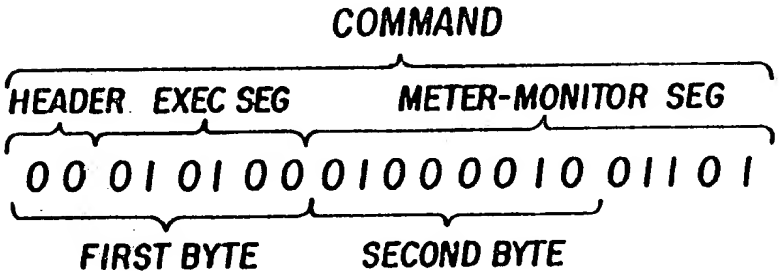


FIG. 2G

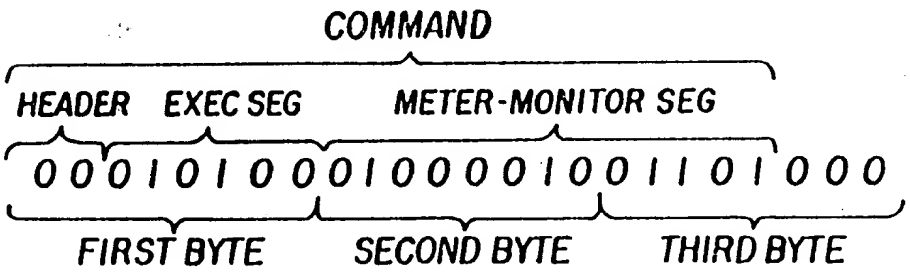


FIG. 2H

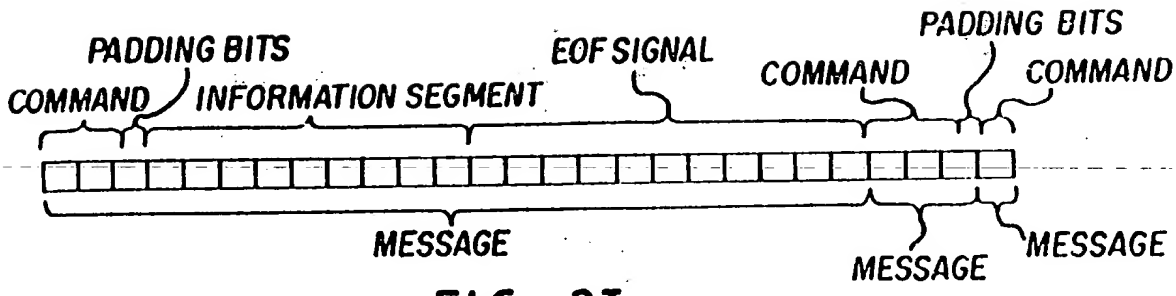


FIG. 2I

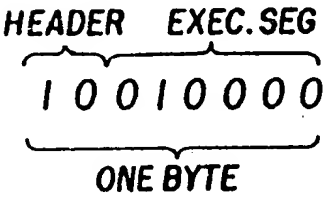


FIG. 2J

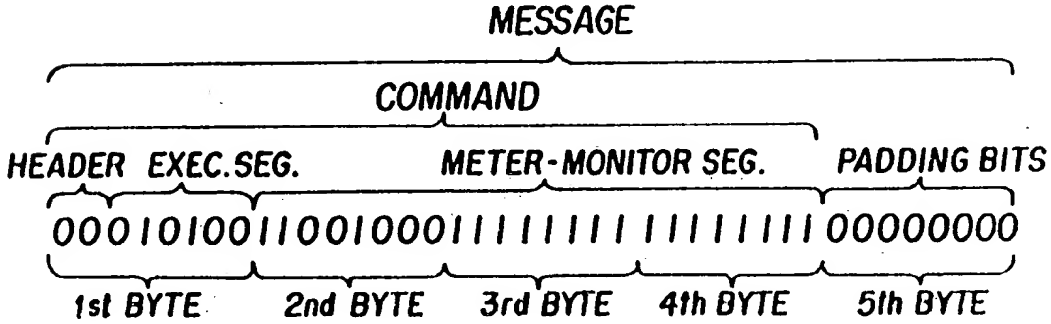


FIG. 2K

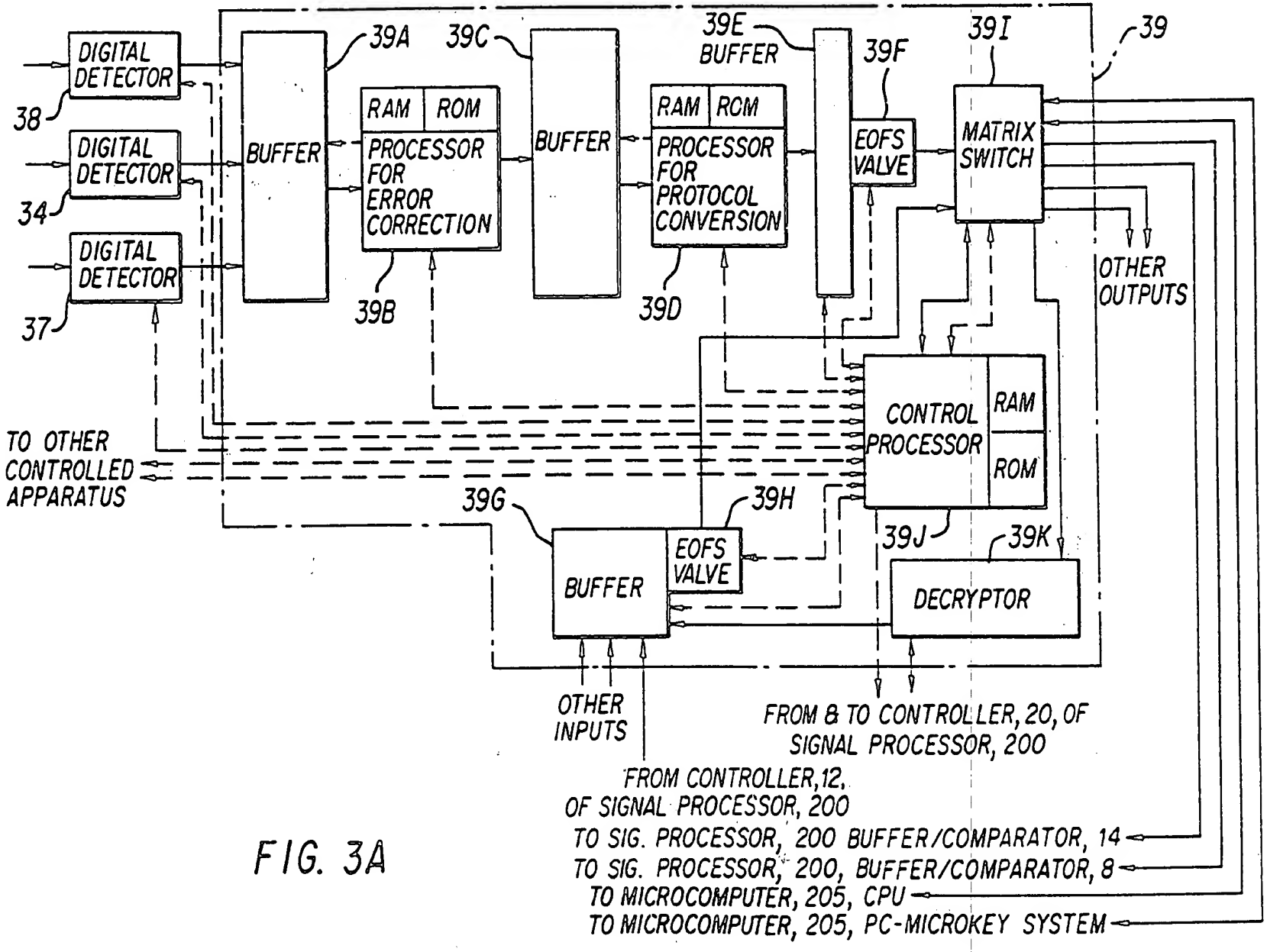
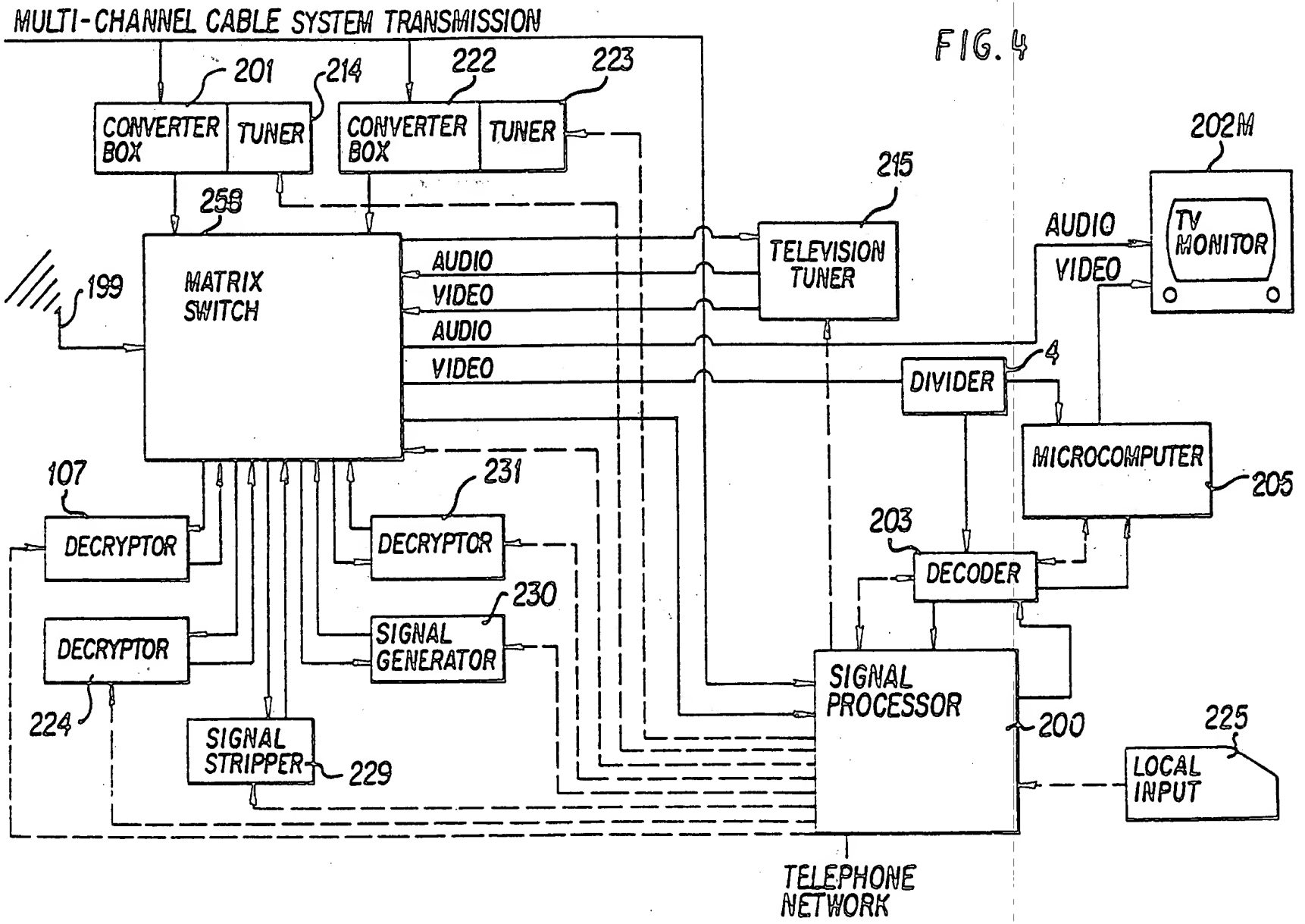

DIGITAL DETECTOR
38
DIGITAL DETECTOR
34
DIGITAL DETECTOR
37
BUFFER
39A
RAM
ROM
PROCESSOR FOR ERROR CORRECTION
39B
39C
BUFFER
RAM
ROM
PROCESSOR FOR PROTOCOL CONVERSION
39D
39E
BUFFER
39F
EOFS VALVE
39I
MATRIX SWITCH
39
OTHER OUTPUTS
CONTROL PROCESSOR
RAM
ROM
39J
39K
DECRYPTOR
TO OTHER CONTROLLED APPARATUS
39G
BUFFER
39H
EOFS VALVE
OTHER INPUTS
FROM & TO CONTROLLER, 20, OF SIGNAL PROCESSOR, 200
FROM CONTROLLER, 12, OF SIGNAL PROCESSOR, 200
TO SIG. PROCESSOR, 200 BUFFER/COMPARATOR, 14
TO SIG. PROCESSOR, 200, BUFFER/COMPARATOR, 8
TO MICROCOMPUTER, 205, CPU
TO MICROCOMPUTER, 205, PC-MICROKEY SYSTEM

FIG. 3A

CRAFTSMAN SUBCLASS

FIG. 4



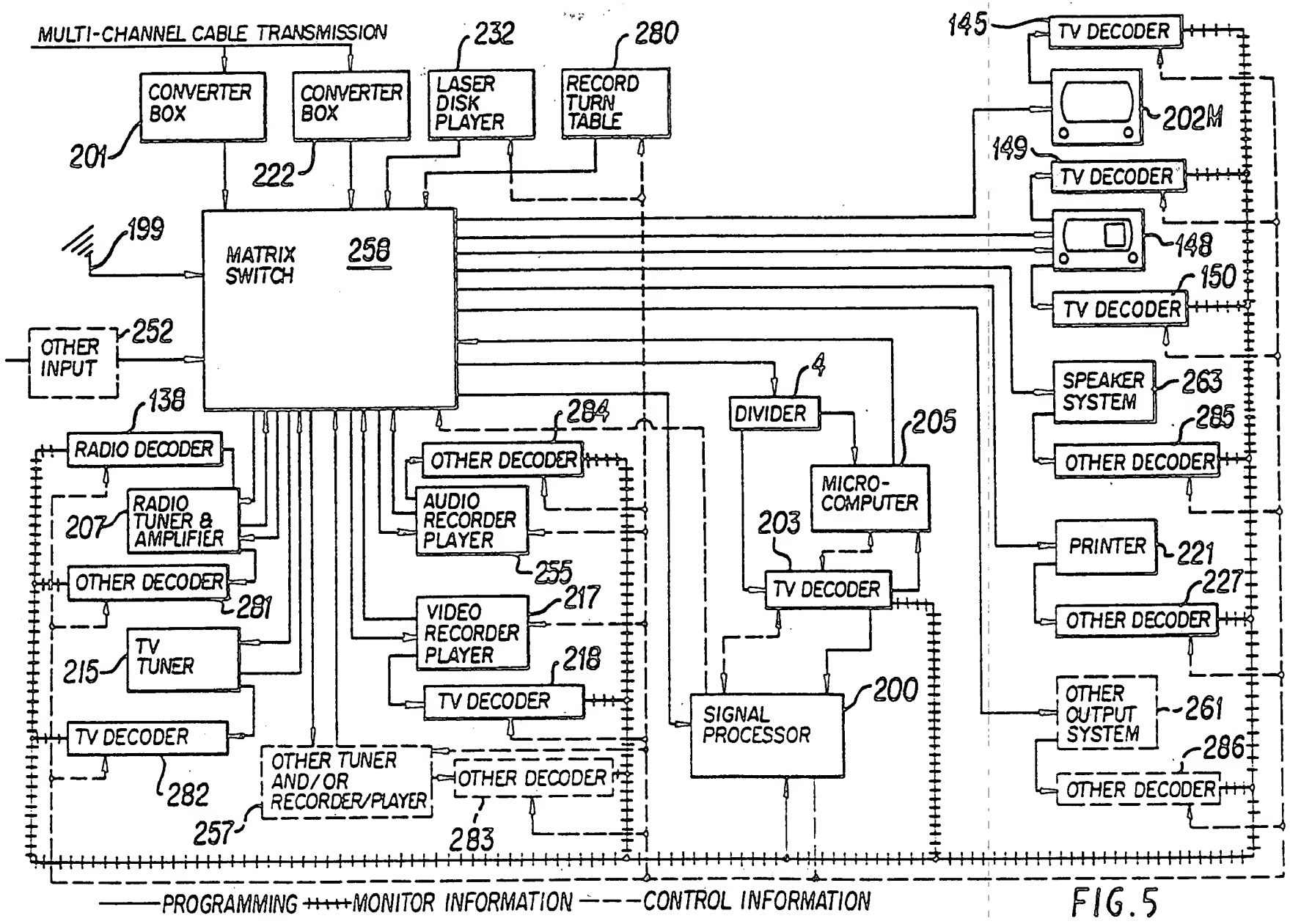

MULTI-CHANNEL CABLE TRANSMISSION
CONVERTER BOX
CONVERTER BOX
LASER DISK PLAYER
RECORD TURN TABLE
201
222
232
280
199
MATRIX SWITCH
258
OTHER INPUT
252
138
RADIO DECODER
207
RADIO TUNER & AMPLIFIER
OTHER DECODER
281
215
TV TUNER
TV DECODER
282
257
OTHER TUNER AND/OR RECORDER/PLAYER
OTHER DECODER
283
284
OTHER DECODER
AUDIO RECORDER PLAYER
255
VIDEO RECORDER PLAYER
217
218
TV DECODER
4
DIVIDER
205
MICRO-COMPUTER
203
TV DECODER
SIGNAL PROCESSOR
200
145
TV DECODER
202M
149
TV DECODER
148
150
TV DECODER
SPEAKER SYSTEM
263
285
OTHER DECODER
PRINTER
221
227
OTHER DECODER
OTHER OUTPUT SYSTEM
261
286
OTHER DECODER
PROGRAMMING
MONITOR INFORMATION
CONTROL INFORMATION

FIG. 5

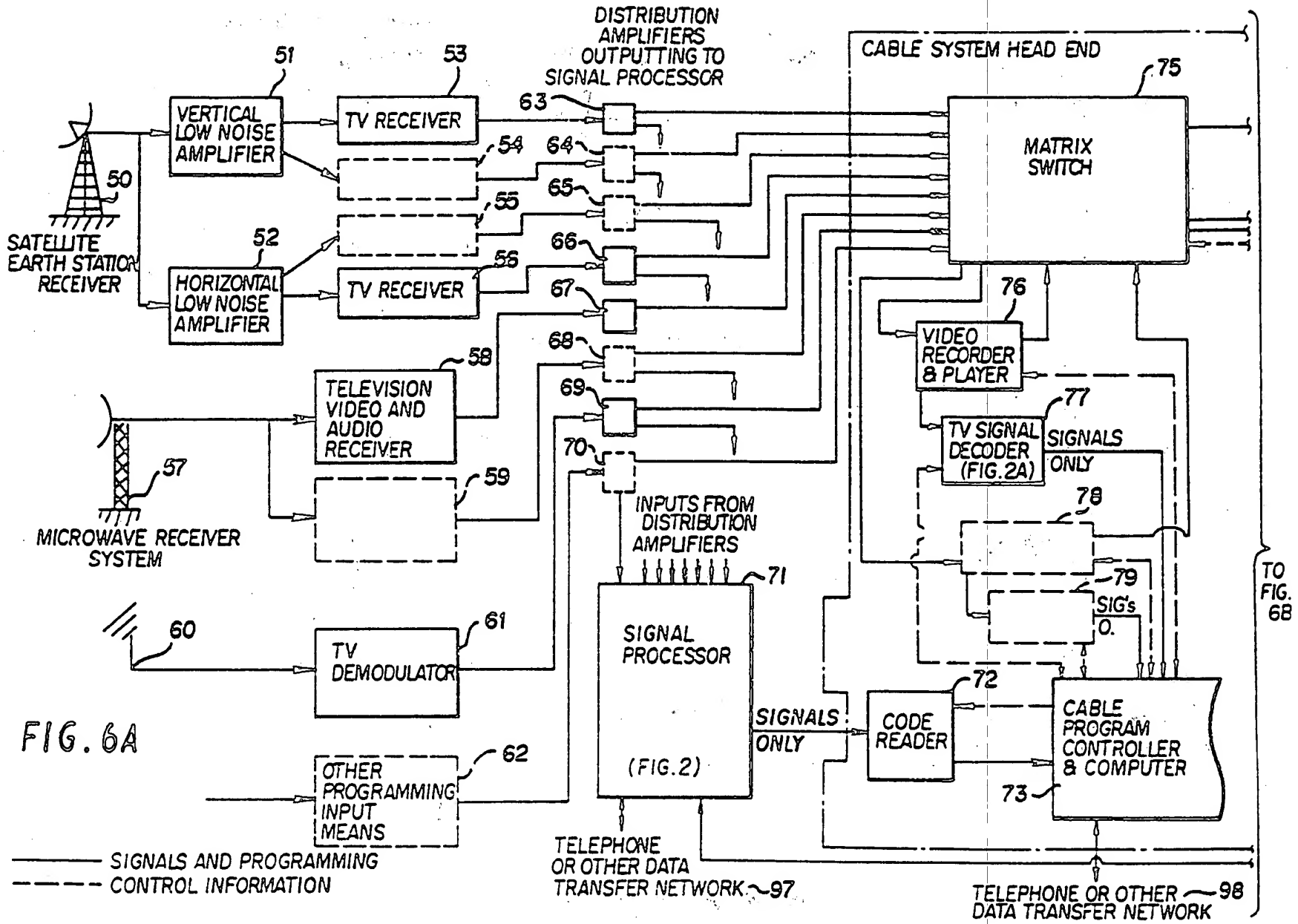

DISTRIBUTION AMPLIFIERS OUTPUTTING TO SIGNAL PROCESSOR
CABLE SYSTEM HEAD END
51
53
63
75
VERTICAL LOW NOISE AMPLIFIER
TV RECEIVER
MATRIX SWITCH
54
64
50
65
55
SATELLITE EARTH STATION RECEIVER
52
66
56
HORIZONTAL LOW NOISE AMPLIFIER
TV RECEIVER
67
76
68
VIDEO RECORDER & PLAYER
58
TELEVISION VIDEO AND AUDIO RECEIVER
69
77
TV SIGNAL DECODER (FIG. 2A)
SIGNALS ONLY
70
57
59
78
INPUTS FROM DISTRIBUTION AMPLIFIERS
MICROWAVE RECEIVER SYSTEM
71
79
SIG's O.
TO FIG. 68
60
61
TV DEMODULATOR
SIGNAL PROCESSOR
(FIG. 2)
72
SIGNALS ONLY
CODE READER
CABLE PROGRAM CONTROLLER & COMPUTER
73
62
OTHER PROGRAMMING INPUT MEANS
TELEPHONE OR OTHER DATA TRANSFER NETWORK
97
TELEPHONE OR OTHER DATA TRANSFER NETWORK
98
SIGNALS AND PROGRAMMING
CONTROL INFORMATION

FIG. 6A

DRAFTSMAN SUBCLASS

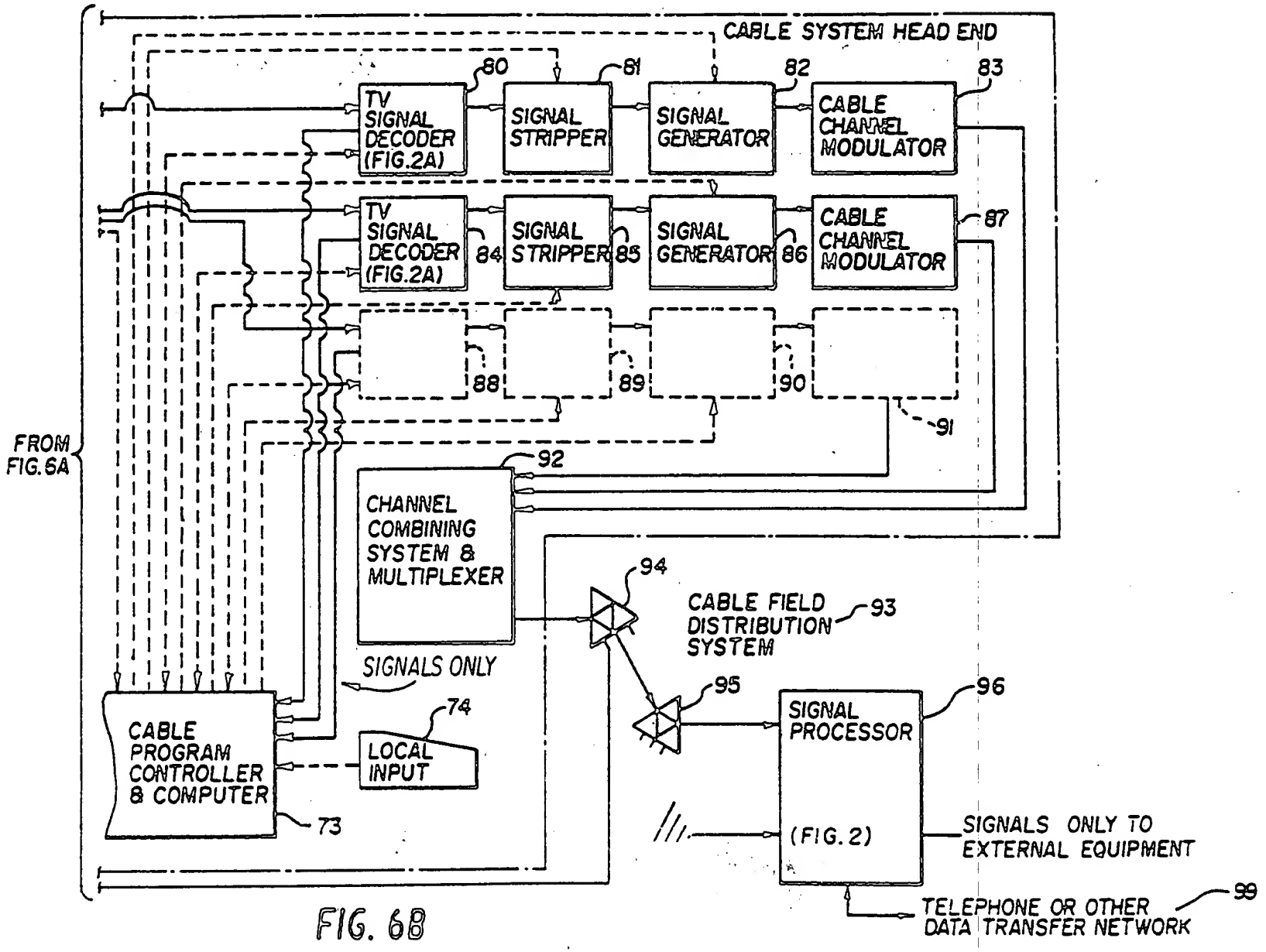


FIG. 6B

CLASS SUBCLASS

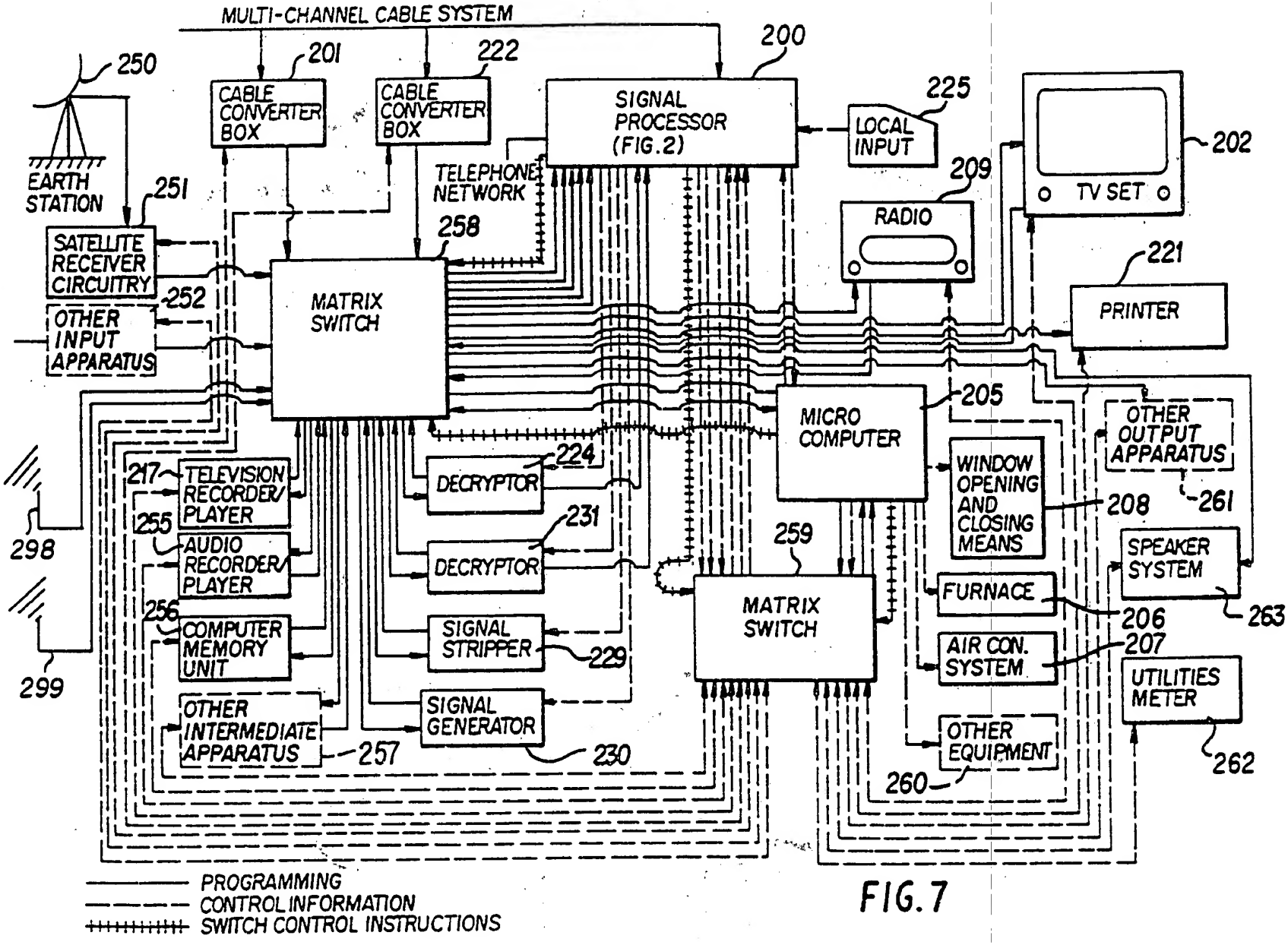


FIG.7

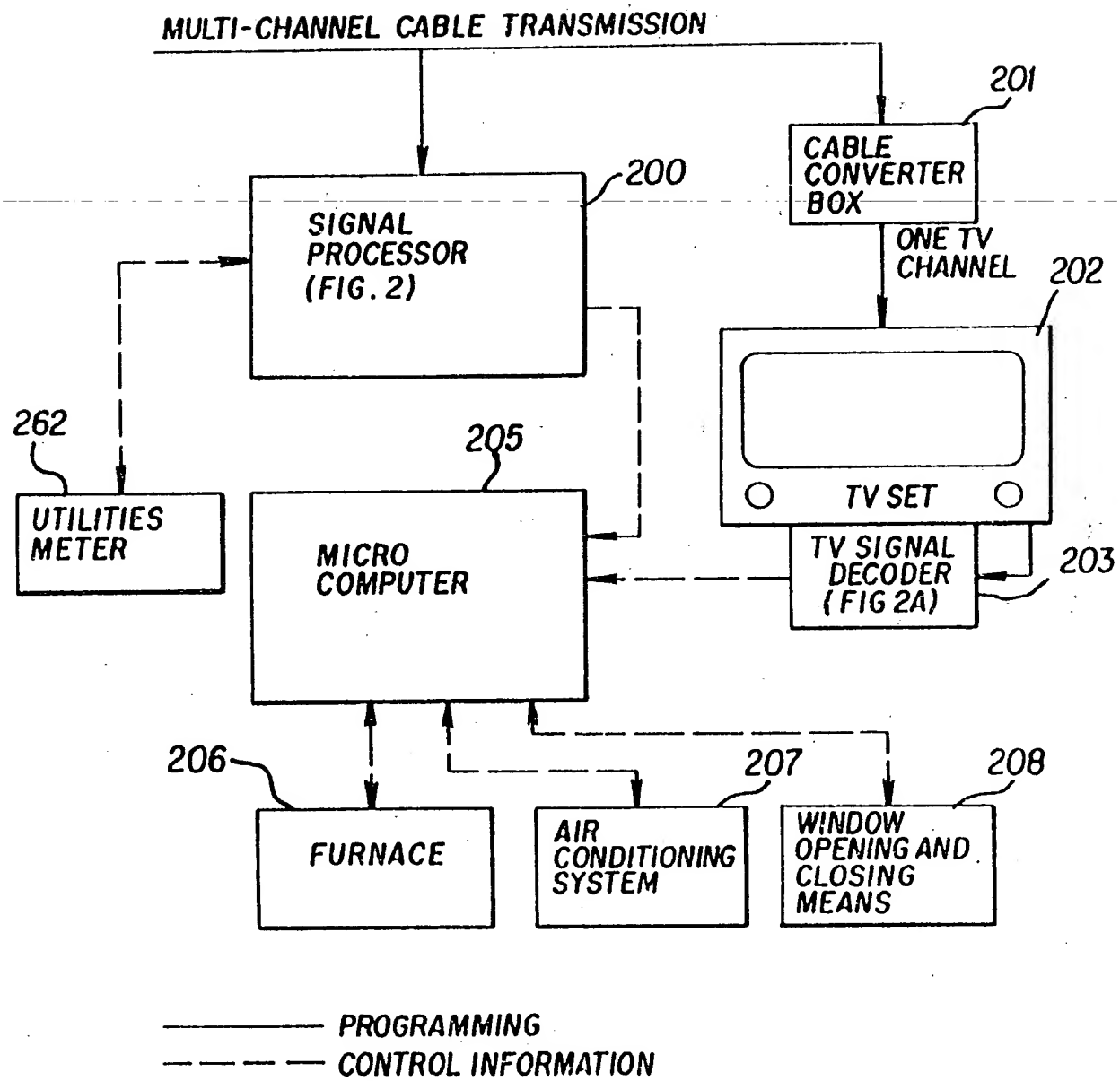

MULTI-CHANNEL CABLE TRANSMISSION
201
CABLE CONVERTER BOX
200
SIGNAL PROCESSOR (FIG. 2)
ONE TV CHANNEL
202
TV SET
262
205
UTILITIES METER
MICRO COMPUTER
TV SIGNAL DECODER (FIG 2A)
203
206
207
208
FURNACE
AIR CONDITIONING SYSTEM
WINDOW OPENING AND CLOSING MEANS
PROGRAMMING
CONTROL INFORMATION

FIG. 7A

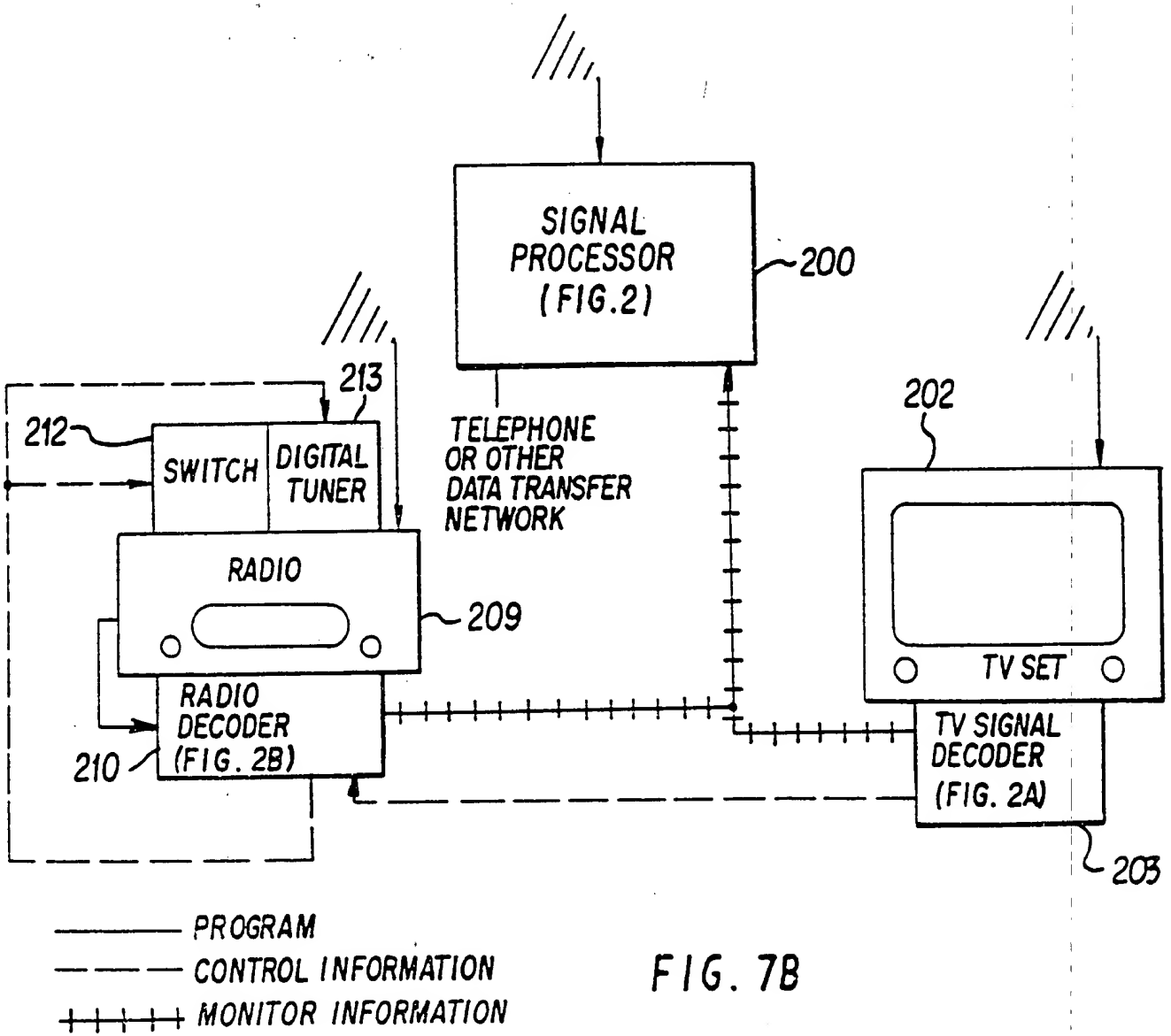

SIGNAL PROCESSOR (FIG.2)
200
TELEPHONE OR OTHER DATA TRANSFER NETWORK
213
212
SWITCH
DIGITAL TUNER
RADIO
209
RADIO DECODER (FIG. 2B)
210
202
TV SET
TV SIGNAL DECODER (FIG. 2A)
203
PROGRAM
CONTROL INFORMATION
MONITOR INFORMATION

FIG. 7B

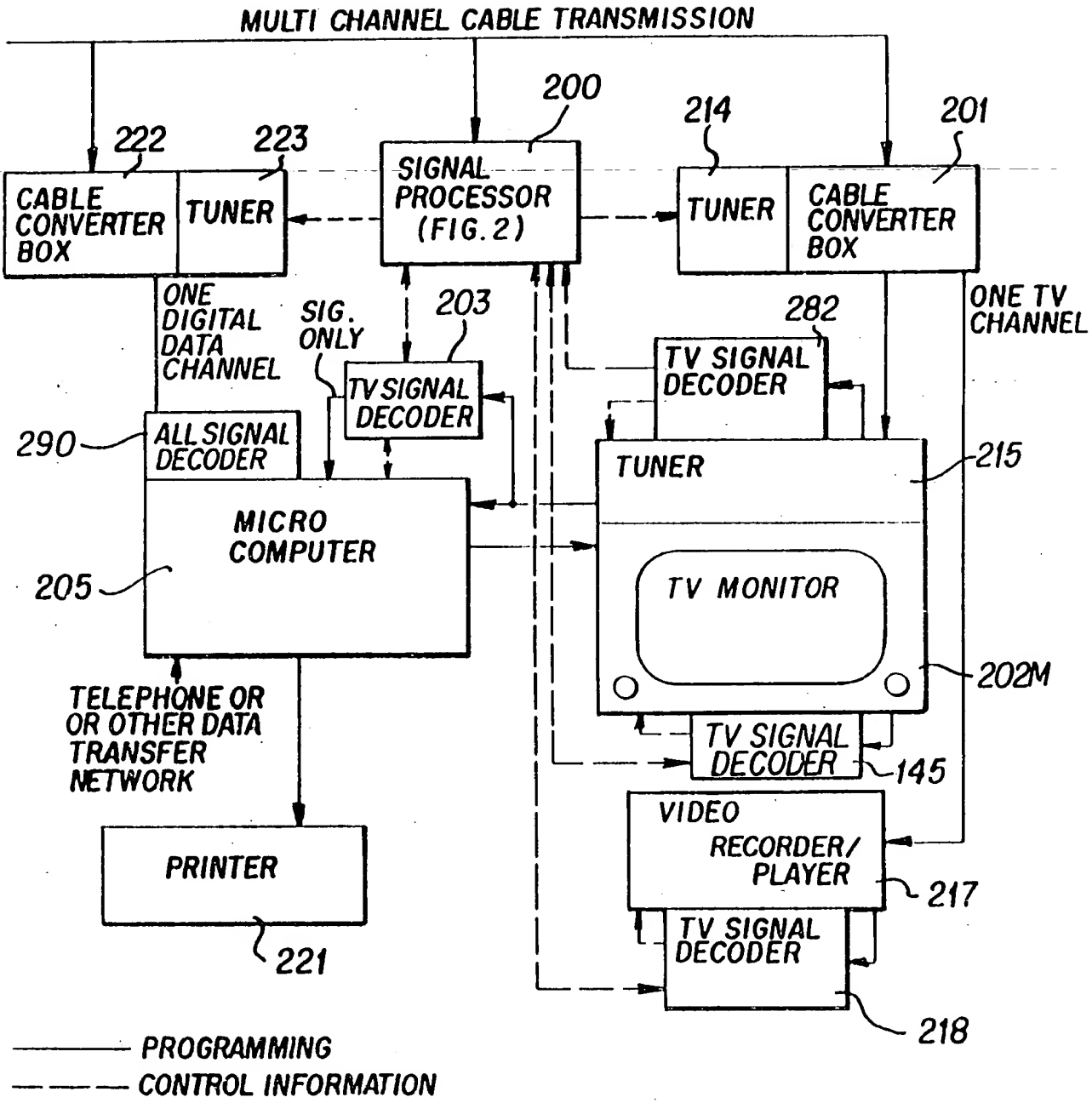

MULTI CHANNEL CABLE TRANSMISSION
200
214
201
222
223
CABLE CONVERTER BOX
TUNER
SIGNAL PROCESSOR (FIG. 2)
TUNER
CABLE CONVERTER BOX
ONE DIGITAL DATA CHANNEL
SIG. ONLY
203
282
ONE TV CHANNEL
TV SIGNAL DECODER
TV SIGNAL DECODER
290
ALL SIGNAL DECODER
TUNER
215
MICRO COMPUTER
205
TV MONITOR
202M
TELEPHONE OR OR OTHER DATA TRANSFER NETWORK
TV SIGNAL DECODER
145
VIDEO RECORDER/ PLAYER
217
PRINTER
221
TV SIGNAL DECODER
218
PROGRAMMING
CONTROL INFORMATION

FIG. 7C

DRAFTSMAN SUBCLASS

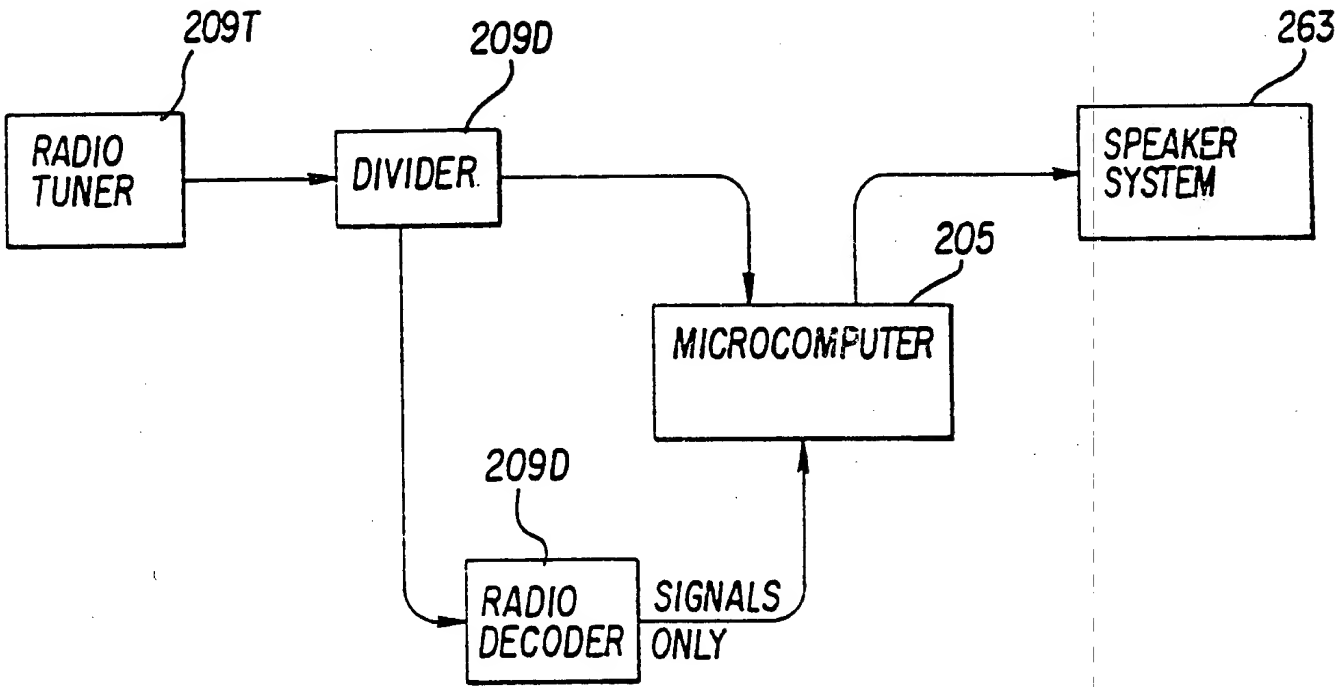


FIG. 7D

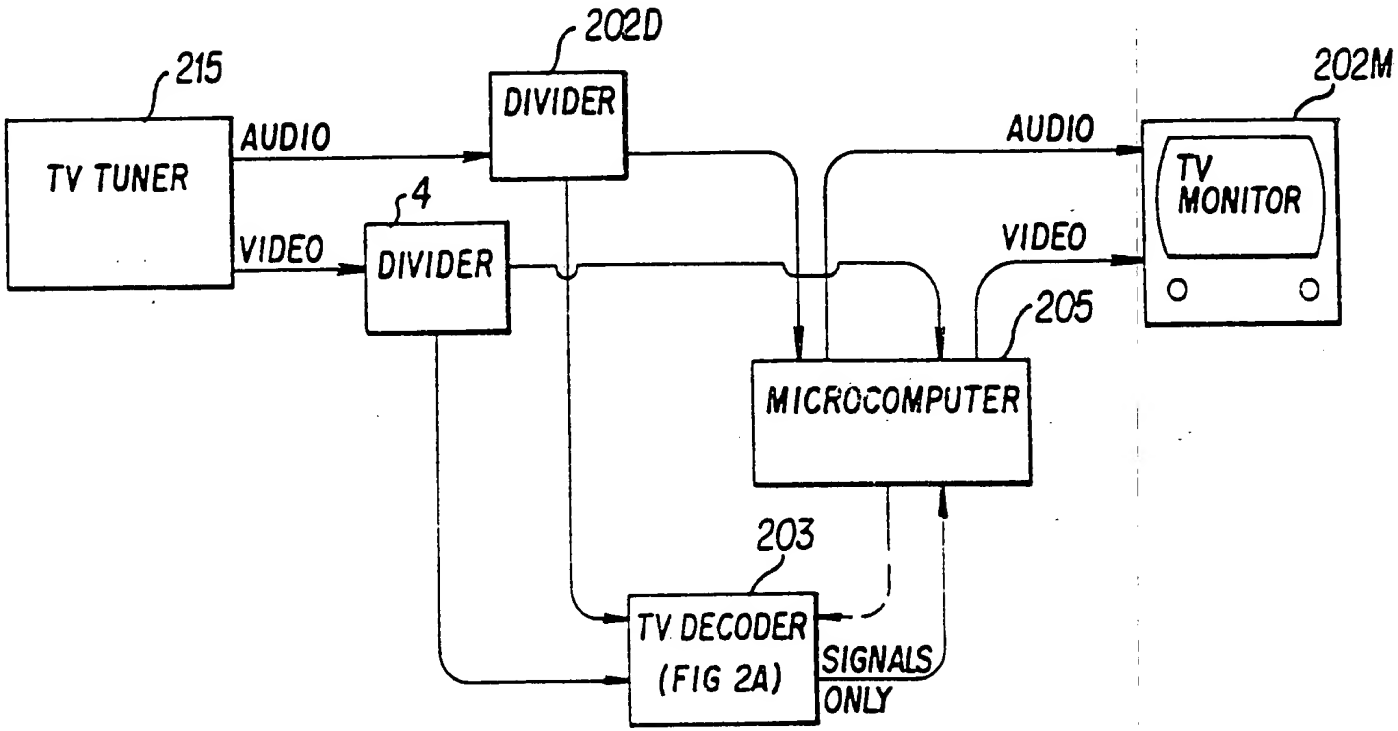

215
TV TUNER
AUDIO
VIDEO
202D
DIVIDER
4
DIVIDER
AUDIO
VIDEO
202M
TV MONITOR
205
MICROCOMPUTER
203
TV DECODER (FIG 2A)
SIGNALS ONLY

FIG. 7E

DRAFTSMAN

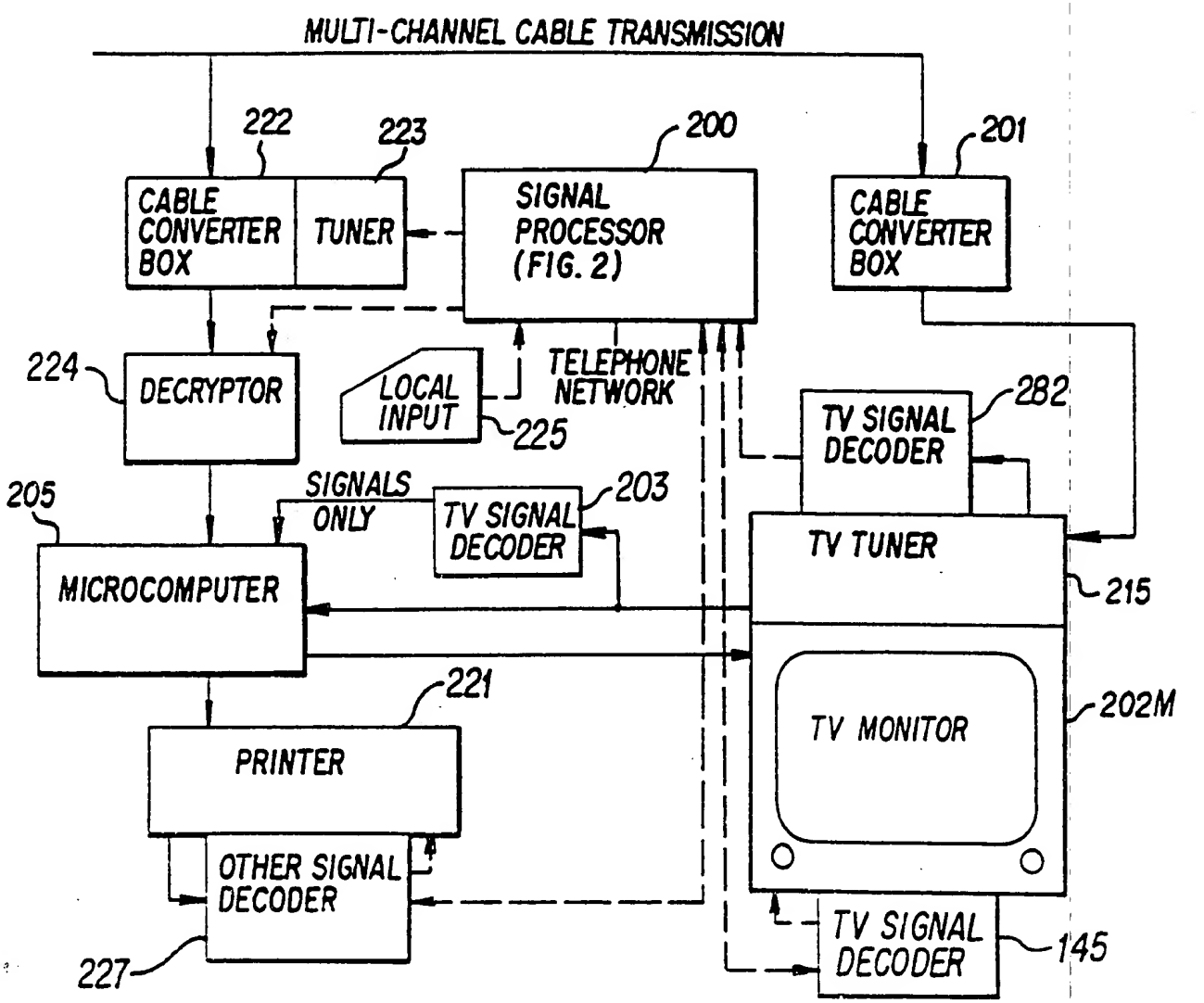


FIG. 7F

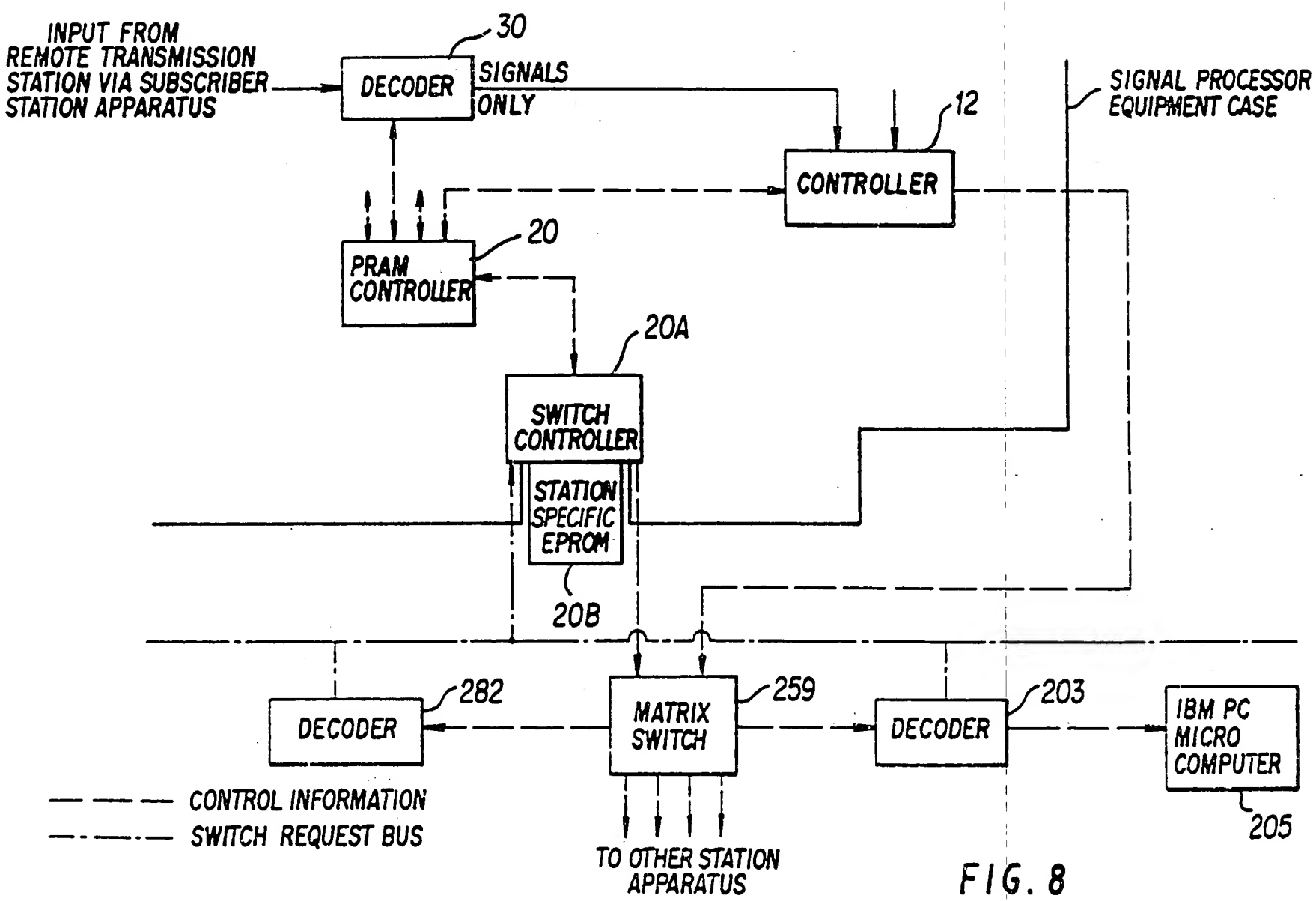

INPUT FROM REMOTE TRANSMISSION STATION VIA SUBSCRIBER STATION APPARATUS
30
DECODER
SIGNALS ONLY
12
CONTROLLER
SIGNAL PROCESSOR EQUIPMENT CASE
20
PRAM CONTROLLER
20A
SWITCH CONTROLLER
STATION SPECIFIC EPROM
20B
282
DECODER
259
MATRIX SWITCH
203
DECODER
IBM PC MICRO COMPUTER
205
CONTROL INFORMATION
SWITCH REQUEST BUS
TO OTHER STATION APPARATUS

FIG. 8

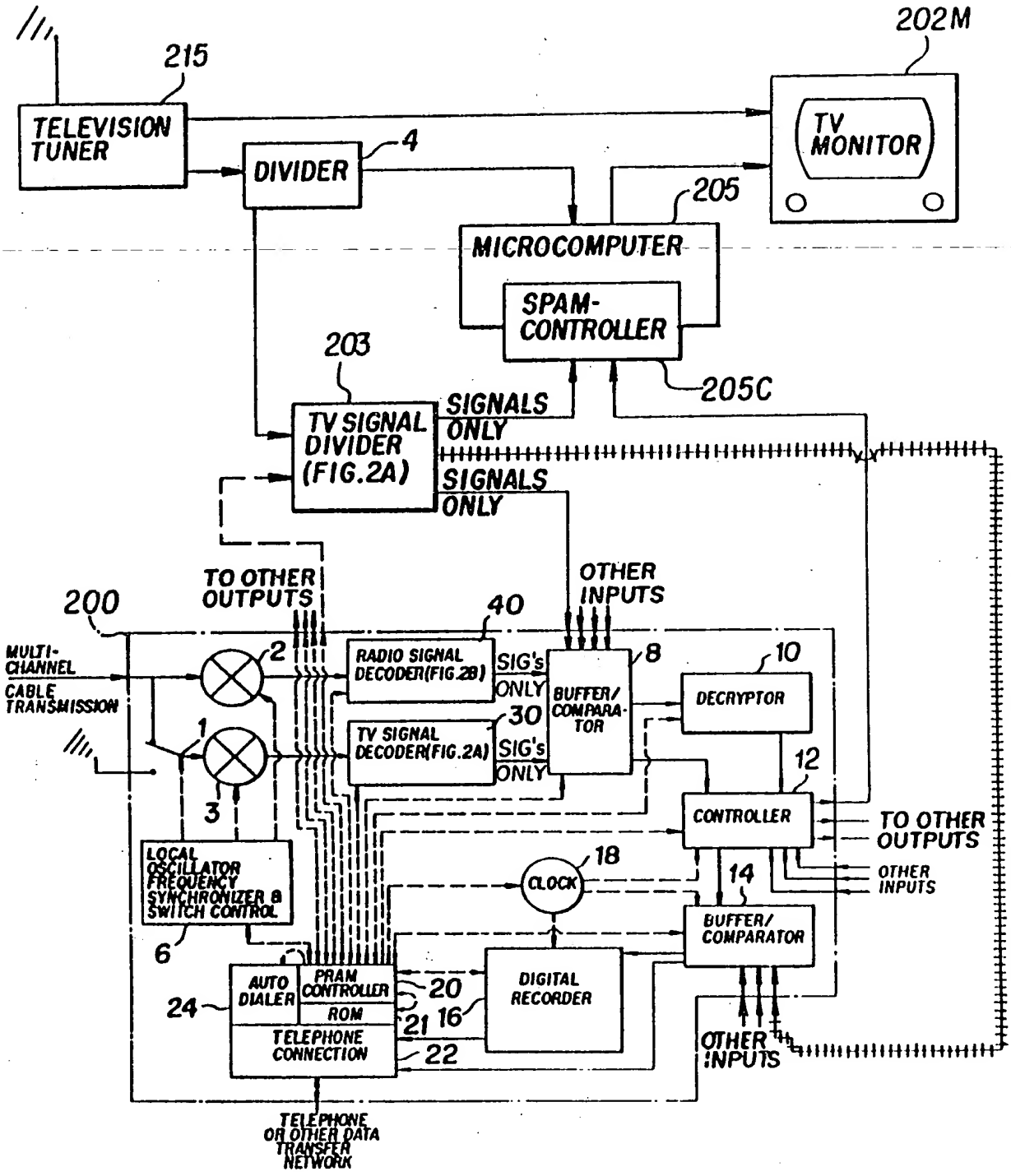

202M
215
TELEVISION TUNER
DIVIDER
4
TV MONITOR
205
MICROCOMPUTER
SPAM-CONTROLLER
203
205C
TV SIGNAL DIVIDER (FIG.2A)
SIGNALS ONLY
SIGNALS ONLY
TO OTHER OUTPUTS
OTHER INPUTS
200
40
MULTI-CHANNEL CABLE TRANSMISSION
2
1
3
RADIO SIGNAL DECODER(FIG.2B)
TV SIGNAL DECODER(FIG.2A)
30
SIG's ONLY
SIG's ONLY
BUFFER/ COMPARA-TOR
8
DECRYPTOR
10
12
CONTROLLER
TO OTHER OUTPUTS
OTHER INPUTS
18
CLOCK
14
BUFFER/ COMPARATOR
LOCAL OSCILLATOR FREQUENCY SYNCHRONIZER & SWITCH CONTROL
6
AUTO DIALER
PRAM CONTROLLER
ROM
TELEPHONE CONNECTION
24
20
21
16
22
DIGITAL RECORDER
OTHER INPUTS
TELEPHONE OR OTHER DATA TRANSFER NETWORK
SIGNALS & PROGRAMMING
CONTROL INFORMATION

FIG. 3